

Title (en)
EPOXY MODIFIED ACRYLIC RESIN AND PREPARATION METHOD THEREFOR, AND ENERGY-CURABLE COMPOSITION CONTAINING EPOXY MODIFIED ACRYLIC RESIN AND APPLICATION

Title (de)
EPOXIDMODIFIZIERTES ACRYLHARZ UND VERFAHREN ZU SEINER HERSTELLUNG SOWIE ENERGIEHÄRTBARE ZUSAMMENSETZUNG MIT EINEM EPOXIDMODIFIZIERTEN ACRYLHARZ UND VERWENDUNG

Title (fr)
RÉSINE ACRYLIQUE MODIFIÉE PAR ÉPOXY ET SON PROCÉDÉ DE PRÉPARATION, COMPOSITION DURCISSABLE PAR APPORT D'ÉNERGIE CONTENANT UNE RÉSINE ACRYLIQUE MODIFIÉE PAR ÉPOXY ET APPLICATION

Publication
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Application
EP 19833589 A 20190702

Priority
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• CN 2019094344 W 20190702

Abstract (en)
Provided are an epoxy modified acrylic resin and a preparation method therefor, an energy-curable composition containing epoxy modified acrylic resin and application. A branched chain of at least one repeat unit in the acrylic resin is grafted with one or more oxetane groups, and each oxetane group separately has the structure as represented by general formula (I), (II), or (III). After the branched chain of the acrylic resin is covalently grafted with the oxetane group, the epoxy modified acrylic resin is obtained. A coating prepared by using the composition containing the epoxy modified acrylic resin has good flexibility, as well as high adhesion and a great curing film forming speed for a coated substrate. The covalent grafting reaction does not affect the main chain structure of an original acrylic resin, and thus during downstream application, it is not necessary to change original devices and production processes, so that the investment costs are low.

IPC 8 full level
C07D 305/00 (2006.01); **C07D 305/06** (2006.01); **C08G 59/02** (2006.01); **C08L 33/08** (2006.01)

CPC (source: EP KR)
C07D 305/00 (2013.01 - KR); **C07D 305/06** (2013.01 - KR); **C08F 8/00** (2013.01 - EP); **C08F 8/08** (2013.01 - KR); **C08F 220/14** (2013.01 - KR); **C08F 220/32** (2013.01 - KR); **C08G 59/02** (2013.01 - EP); **C08G 59/34** (2013.01 - KR); **C08L 33/068** (2013.01 - KR); **C08L 63/00** (2013.01 - KR); **C08F 220/20** (2013.01 - EP)

C-Set (source: EP)
1. **C08F 220/20 + C08F 220/14**
2. **C08F 8/00 + C08F 8/00 + C08F 8/14 + C08F 220/20**

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